



AMENDMENTS TO THE CLAIMS

1-34. (Canceled)

35. (Currently amended) A conditioning device, comprising:

roller segments rotatable about an axis for conditioning respective surface portions of a glazed polishing surface, said segments being rotatable at different speeds relative to said respective surface portions; and

a system for moving said rotatable roller segments in a direction of said axis relative to said glazed polishing surface and for moving said glazed polishing surface relative to said roller segments at a predetermined rate.

36. (Original) The conditioning device of claim 35, further comprising a drive system for rotating said roller segments at different speeds relative to said respective surface portions.

37. (Original) The conditioning device of claim 36, wherein said drive system includes gears located inside said roller segments and a drive shaft connecting said gears.

38. (Original) The conditioning device of claim 36, wherein said drive system has gears located outside said roller segments and at least one drive shaft extending through said roller segments, said drive shaft being connected to at least one of said gears.

39. (Original) The conditioning device of claim 36, wherein said drive system includes electrical motors located inside said roller segments.

40. (Original) The conditioning device of claim 36, wherein said roller segments are coaxially aligned.

41. (Canceled)

42. (Original) The conditioning device of claim 36, wherein said moving system provides relative movement between said roller segments and a polishing pad.

43. (Previously presented) The conditioning device of claim 42, wherein the axes of said roller segments are arranged at an acute angle with respect to a longitudinal direction of the polishing pad.

44. (Original) The conditioning device of claim 35, wherein said conditioning device is adjustable in response to measurements of surface characteristics of work pieces.

45. (Currently amended) A conditioning device, comprising:

cylindrical roller segments rotatable about an axis for conditioning respective portions of a glazed polishing surface;

means for rotating said cylindrical roller segments; and

a system for moving said cylindrical roller segments relative to said glazed polishing surface during a conditioning process,

wherein said conditioning device is adjustable during a conditioning process in a direction of said axis in response to measurements of surface characteristics of work pieces.

46. (Original) The conditioning device of claim 45, wherein said moving system moves said roller segments longitudinally with respect to a web-shaped polishing pad.

47. (Original) The conditioning device of claim 45, wherein said moving system moves said roller segments laterally with respect to a polishing pad.

48. (Original) The conditioning device of claim 45, wherein the exterior surfaces of said roller segments are different to provide different conditioning treatments on different portions of the polishing surface.

49-54. (Canceled)

55. (Currently amended) A conditioning apparatus, comprising:
a conditioning device for simultaneously applying different conditioning treatments to the surface of a polishing pad; and
a rotatable support system for providing relative rotation between said conditioning device and the polishing pad,

wherein said conditioning device comprising comprises roller segments rotatable about an axis, and said system further comprising comprises a drive system for moving said conditioning device in a direction of said axis along the direction of rotation of said roller segments during conditioning.

56. (Canceled)

57. (Original) The conditioning apparatus of claim 55, wherein said conditioning device includes at least one non-cylindrical roller.

58. (Original) The conditioning apparatus of claim 55, wherein said conditioning device applies different pressures to different portions of the pad.

59. (Original) The conditioning apparatus of claim 55, further comprising a data processor for adjusting said conditioning device.

60-65. (Canceled)

66. (New) The conditioning device of claim 35, wherein said moving system is arranged to move said roller segments in a longitudinal direction with respect to a polishing pad.

67. (New) A conditioning apparatus, comprising:

a polishing pad;

a support system for movably supporting said polishing pad, said support system including a support and guide rollers;

a drive system for moving said polishing pad in first and second directions, said drive system comprising: supply and take-up rollers for moving said polishing pad in said first and second directions, and motors controlled by a controller for rotating said supply and take-up rollers;

a carrier for pressing a work piece against said polishing pad and for moving said work piece relative to said polishing pad; and

a conditioning device comprising:

a plurality of roller segments rotatable about an axis for conditioning respective surface portions of a glazed polishing surface of said polishing pad, said segments being rotatable at different speeds relative to said respective surface portions, and

a system for moving said plurality of roller segments in a direction axially of said roller segments relative to said glazed polishing surface, and for moving said glazed polishing surface relative to said roller segments at a predetermined rate.

68. (New) The conditioning apparatus of claim 67, wherein said system of said conditioning device is for moving said roller segments in a longitudinal direction relative to said respective surface portions.